

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/052129

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H03M1/16

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H03M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, IBM-TDB, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>US 6 486 820 B1 (ALLWORTH PETER C ET AL) 26 November 2002 (2002-11-26) abstract figures 4-6 column 1, line 27 - line 29 column 2, line 32 - line 37 column 2, line 49 - line 53 column 5, line 35 - line 58 column 7, line 16 - line 33 ----- -/--</p>	1,2,5,7

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*8\* document member of the same patent family

Date of the actual completion of the international search

2 February 2005

Date of mailing of the international search report

10/02/2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>MANGELSDORF C ET AL: "A two-residue architecture for multistage ADCs"  SOLID-STATE CIRCUITS CONFERENCE, 1993.  DIGEST OF TECHNICAL PAPERS. 40TH ISSCC.,  1993 IEEE INTERNATIONAL SAN FRANCISCO, CA,  USA 24-26 FEB. 1993, NEW YORK, NY,  USA, IEEE, US,  24 February 1993 (1993-02-24), pages  64-65, XP010111417  ISBN: 0-7803-0987-1  cited in the application  column 1, line 7 - line 9  column 1, line 11 - line 14  column 1, line 36 - line 42  -----</p>	1,2,5,7

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6486820	B1	26-11-2002	US 6765977 B1 20-07-2004
			US 6686804 B1 03-02-2004
			US 6744324 B1 01-06-2004
			US 6665339 B1 16-12-2003
			US 6577185 B1 10-06-2003
			US 6512419 B1 28-01-2003
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